



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
-----------------	-------------	----------------------	---------------------	------------------

10/577,541

04/28/2006

Daisuke Matsumoto

10921.403USWO

9838

52835

7590

10/19/2009

HAMRE, SCHUMANN, MUELLER & LARSON, P.C.

P.O. BOX 2902

MINNEAPOLIS, MN 55402-0902

EXAMINER

HORNBERGER, JENNIFER LEA

ART UNIT

PAPER NUMBER

3734

MAIL DATE

DELIVERY MODE

10/19/2009

PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No. 10/577,541	Applicant(s) MATSUMOTO ET AL.	
	Examiner JENNIFER L. HORNBERGER	Art Unit 3734	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 21 July 2009.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-31 is/are pending in the application.
- 4a) Of the above claim(s) 23-31 is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-22 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 28 April 2006 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☒ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date <u>06/22/2009, 04/28/2006</u> . | 6) <input type="checkbox"/> Other: _____ |

Art Unit: 3734

DETAILED ACTION

Election/Restrictions

1. Claims 23-31 are withdrawn from further consideration pursuant to 37 CFR 1.142(b) as being drawn to a nonelected invention, there being no allowable generic or linking claim.

Election was made **without** traverse in the reply filed on 07/21/2009. Because applicant did not distinctly and specifically point out the supposed errors in the restriction requirement, the election has been treated as an election without traverse (MPEP § 818.03(a)).

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.

3. Claims 1-18 are rejected under 35 U.S.C. 102(a) as being anticipated by Koike et al. (WO 03/005907). Cited element numbers and paragraph numbers are based on US Publication (US 2004/0243165) which is the national stage entry.

Regarding claims 1 and 3, Koike et al. disclose a lancet comprising a lancet body (2A, 2B including stopper 71A,71B) provided with a lancing element (20), and a casing (1A, 1B) including a space (10) extending throughout the casing for retaining the lancet body therein (Fig. 20A and 21), wherein the lancet body is fixed to the casing (in the “wait position”) when an external force exceeding a predetermined level in a particular direction is not applied to the casing (paragraphs 81 and 106-110), whereas the lancet body becomes movable relative to the casing when an external force exceeding the predetermined level in the particular direction is applied to the casing (paragraphs 81 and 106-110), wherein the casing has a cross-sectional

Art Unit: 3734

shape which changes when the external force exceeding the predetermined level in the particular direction is applied to the casing; and wherein the lancet body becomes movable relative to the casing when the cross-sectional shape of the casing is changed. The cross-sectional shape changes in the sense that movable pieces (70A) are pushed out of the way allowing the stopper (71A) and the lancet body (2A) to move relative to the casing (paragraphs 81 and 106-110; Fig. 19, 20A, 20B, and 21).

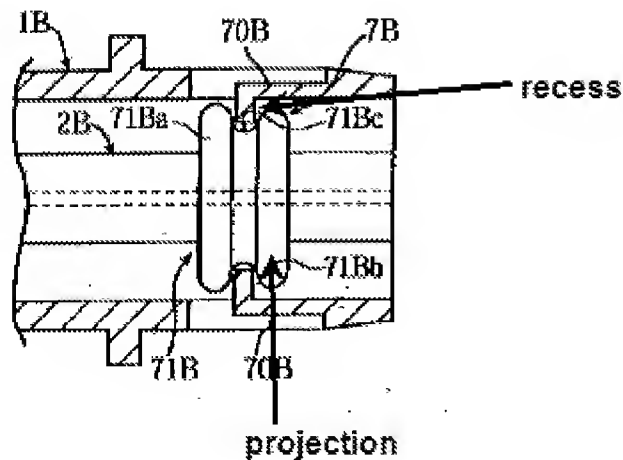
Regarding claim 2, Koike et al. disclose the particular direction crosses a direction in which the space extends.

Regarding claim 4, Koike et al. disclose the casing includes a contact portion (70b) which comes into contact with the stopper (71A, 71B) of the lancet body when the external force exceeding the predetermined level in the particular direction is not applied to the casing; and wherein a gap is defined between the contact portion and the lancet body when the cross-sectional shape of the casing is changed. The cross-sectional shape changes in the sense that movable pieces (70A) are pushed out of the way allowing the stopper (71A) and the lancet body (2A) to move relative to the casing (paragraphs 81 and 106-110; Fig. 19, 20A, 20B, and 21).

Regarding claim 5, Koike et al. disclose the contact portion comprises a projection (70b).

Regarding claim 6, Koike et al. disclose the contact portion comprises a recess (see figure below), and wherein the lancet body is provided with a projection (see figure below) for coming into engagement with the recess (Fig. 21).

Art Unit: 3734



Regarding claim 7, Koike et al. disclose an outer diameter of the casing at a portion (14) where the contact portion is not provided is larger than an outer diameter of the casing at a portion where the contact portion is provided (Fig. 10C, 19, 20A).

Regarding claim 8, Koike et al. disclose the casing is formed with a projection (70b) for actively causing the external force in the particular direction to be applied to the casing (Fig. 19, 20A, 20B; paragraphs 81, 106, and 107).

Regarding claims 9 and 10, Koike et al. disclose the casing (1A, 1B) is formed with an opening (70a) for allowing the cross-sectional shape of the casing to change when the external force in the particular direction is applied, wherein the opening comprises a cutout or a slit (Fig. 19, 20A, and 20B).

Regarding claim 11, Koike et al. disclose after the cross-sectional shape of the casing is changed, the cross-sectional shape returns to an original shape when the application of the external force to the casing in the particular direction is removed (paragraph 107).

Regarding claim 12, Koike et al. disclose a lid (12, 120) for selectively opening or closing an upper opening of the casing (Fig. 2, 8, and 18A-C).

Regarding claim 13, Koike et al. disclose the lid (12, 120) is attached to the casing (Fig. 2, 8, and 18A-C).

Art Unit: 3734

Regarding claim 14, Koike et al disclose when the lid (120) closes the upper opening of the casing, the external force exceeding the predetermined level in the particular direction is applied to the casing to change the cross-sectional shape of the casing; and wherein the lancet body becomes movable relative to the casing when the cross-sectional shape of the casing is changed (paragraphs 81 and 106-110; Fig. 19, 20A, 20B, and 21).

Regarding claim 12, 14, and 15, Koike et al. disclose a lid (3,4) for selectively opening and closing an upper opening (proximal opening) of the casing. Koike et al. further disclose when the lid (3,4) closes the upper opening of the casing, the external force exceeding the predetermined level in the particular direction is applied to the casing to change the cross-sectional shape of the casing; and wherein the lancet body becomes movable relative to the casing when the cross-sectional shape of the casing is changed (paragraphs 81 and 106-110; Fig. 19, 20A, 20B, and 21), the casing is formed with an opening (70a) for allowing the cross-sectional shape of the casing to change when the external force in the particular direction is applied; and wherein the lid includes an operative portion which comes into engagement with the opening and applies the external force in the particular direction to the casing when the lid closes the upper opening. The upper opening is engaged between lid portions (3, 4), wherein lid portion (4) applies the external force to the casing causing movable pieces to move and changing the cross-sectional shape of the casing.

Regarding claim 16, Koike et al. disclose the casing includes a stopper portion (16) for preventing the lancet body from dropping through a lower opening of the casing when the lancet body is movable relative to the casing (paragraph 69).

Regarding claims 17 and 18, Koike et al. disclose a fixer for fixing the lid to the casing when the upper opening is closed by the lid, wherein the fixer comprises a projection (19)

Art Unit: 3734

provided at one of the lid and the casing, and a hook (29b) provided at the other one of the lid and the casing for engagement with the projection (Fig. 8 and 9A).

Claim Rejections - 35 USC § 103

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

5. Claims 19 and 20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Koike et al. (WO 03/005907) in view of Nishikawa et al. (US 6, 315,738).

Regarding claim 19, Koike et al. fail to disclose the casing holds an analytical tool for analyzing a particular component contained in body fluid extracted from a lancing target portion. Nishikawa et al. disclose an analytical tool (32), located within the distal end of lancing device, for analyzing a particular component contained in body fluid extracted from a lancing target portion, wherein the analytical tool includes a capillary (33) for moving blood by capillary force, a through-hole for allowing movement of the lancing element, and an introduction port (33a) which communicates with the through-hole for introducing blood to the capillary (Fig. 3 and 4). Nishikawa et al. disclose that providing a detection means such as a test strip within the lancet is advantageous because using one device is more convenient and sanitary than replacing a lancet for a glucose monitoring device (col. 2, ln. 7-12). It would have been obvious to one ordinary skill in the art to modify the casing of the device of Koike et al. to include an analytical tool as taught by Nishikawa et al. in order to provide a more sanitary and convenient technique for testing blood parameters such as glucose levels.

Regarding claim 20, Koike et al. as modified by Nishikawa et al. disclose the analytical tool includes a capillary (33) for moving blood by capillary force, a through-hole for allowing

Art Unit: 3734

movement of the lancing element, and an introduction port (33a) which communicates with the through-hole for introducing blood to the capillary (Fig. 3 and 4).

6. Claims 21 and 22 are rejected under 35 U.S.C. 103(a) as being unpatentable over Koike et al. (WO 03/005907) in view of Moerman et al. (US 7,378,007).

Regarding claim 21, Koike et al. fail to disclose the casing holds an analytical tool for analyzing a particular component contained in body fluid extracted from a lancing target portion. Moerman et al. disclose a lancing device comprising a casing (1) having a lid (3) which holds an analytical tool (32) for analyzing a particular component contained in body fluid extracted from a lancing target portion (Fig. 3A-3C). Moerman et al. disclose that the lancet combined with a detection system in one device simplifies the two step process of piercing the skin and then transferring blood to the detection apparatus (col. 1, ln. 60 - col. 2, ln 5). It would have been obvious to one of ordinary skill in the art to modify the device of Koike et al. to provide a lid as taught by Moerman et al. to be attached after removal of the cap (12, 120) in order to allow the skin to be pierced and blood to be collected for detection by one device.

Regarding claim 22, Koike et al. as modified by Moerman et al. disclose the analytical tool includes a capillary for moving blood by capillary force (col. 6, ln. 1-11), a through-hole (54) for allowing movement of the lancing element, and an introduction port communicating with the through-hole for introducing blood to the capillary (col. 6, ln. 1-11).

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to JENNIFER L. HORNBERGER whose telephone number is (571)270-3642. The examiner can normally be reached on Monday through Friday from 8am-5pm, Eastern time.

Art Unit: 3734

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Todd Manahan can be reached on (571)272-4713. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

jlh
10/12/2009

/Todd E Manahan/
Supervisory Patent Examiner, Art Unit 3734